

**ABRASIVE ARTICLE COMPRISING A STRUCTURED
DIAMOND-LIKE CARBON COATING AND METHOD OF
USING SAME TO MECHANICALLY TREAT A SUBSTRATE**

Abstract

The invention provides abrasive articles comprising: (a) a backing having a first major surface and a second major surface; and (b) an abrasive coating consisting essentially of: (i) a hardened binder coating having a first surface adhered to the flexible backing and a second structured surface comprising a plurality of precisely-shaped protrusions; and (ii) a diamond-like carbon coating superposed and adhered to at least a portion of the structured surface of the hardened binder coating. Also reported is a method of mechanically treating a rigid disk or a rigid disk substrate using the abrasive articles of the present invention.